



Information for Designers

Local Design Criteria

This information is provided for use by builders and designers and is in accordance with the 2003 editions of the Virginia USBC, the International Building Code and the International Residential Code.

Climatic and Geographic Design Criteria for Roanoke County, Virginia

IBC and IRC Table R301.2(1)

Ground Snow Load	Wind Speed MPH V_{3s}	Seismic Design Category	Subject to Damage From				Winter Design Temp	Flood Hazards
			Weathering	Frost Line Depth	Termite	Decay		
30 psf	90	C	Severe	24"	Moderate	Moderate	16°	FEMA# 510130

Wind Exposure (IBC Sec. 1609.4) - Category B

Yearly Heating Degree Days – 4,150

Yearly Cooling Degree Days – 1,154

Climate Zone – 9B

Mean Annual Temperature – 55°

Air Freezing Index – 250

Latitude: 37° 19' N

Longitude: 79° 58' W

Average Monthly Climate Summary

Period of Record: 8/ 1/1948 to 3/31/2004

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	45.2	48.7	57.0	67.8	76.1	83.3	87.1	85.6	78.7	68.6	57.5	47.7	66.9
Average Min. Temperature (F)	27.0	28.8	35.6	44.7	53.2	61.0	65.5	64.2	57.0	45.7	36.8	29.4	45.7
Average Total Precipitation (in.)	2.91	3.14	3.62	3.27	3.90	3.52	3.78	3.93	3.47	3.12	2.92	2.97	40.55
Average Total SnowFall (in.)	6.6	7.1	3.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.0	23.1